BRUHATH BENGALURU MAHANAGARA PALIKE

# QUALITY CONTROL TEST REPORT

Name of Work: Restoration and Improvements of roads at Hesaraghatta main road, G - Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, Adityanagara Phase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.


Civil Aim Consultants & Engineers

(Buildings Geo-Test & Highway Materials Testing Laboratory)

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No.01, Satvika Nilaya,Opp.Widia Poorna Prajna School,Ramaiah Layout Nagasandra Bengaluru -560073.

# CIVIL AIM CONSULTANTS & ENGINEERS

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## QC ABSTRACT

Nameof Work:Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank

| No. | Item | Quantity As Per BOQ | Required No's of testes | Actual No's of testes | Testes | Frequency |
|---|---|---|---|---|---|---|
| 1 | 1:4.8 | 821.71 Cum | 1 | 1 | Cement<br>Sand, Aggregates | One Test Per Lot |
| 2 | M20 | 1541.81 Cum | 34 | 34 | Concrete Cube Compressive Strength | - |
| 3 | M20 | 99.32 Cum | 5 | 5 | Concrete Cube Compressive Strength | - |
| 4 | Steel | 98.80 Tonne | 1 | 1 | - | - |
| 5 | Slab (100mm) | 4132.35 Sqm | 1 | 1 | Concrete Core Compressive Strength | - |
| 6 | Slab (230mm) | 179.64 Sqm | 1 | 1 | Concrete Core Compressive Strength | - |
| 7 | Kerb | 11280 Nos | 1 | 1 | Concrete Core Compressive Strength | - |
| 8 | M15 | 101.52 Cum | 5 | 5 | Concrete Cube Compressive Strength | - |
| 9a | GSB | 551.64 Cum | 1 | 1 | - | - |
| 9 | WMM | 735.52Cum | - | - | - | - |
| | | Gradation | 4 | 4 | - | - |
| | | AIV | 1 | 1 | - | - |
| | | Shape Test | 3 | 3 | - | - |
| | | Atterberg Limits | 4 | 4 | - | - |
| 2 | DBM | 183.88 Cum | - | - | - | - |
| | | Quality of Binder | 1 | 1 | - | - |
| | | AIV | 1 | 1 | - | - |
| | | Shape Test | 1 | 1 | - | - |
| | | Gradation | 1 | 1 | - | - |
| | | Specific Gravity | 1 | 1 | - | - |
| | | Stability of Mix | 1 | 1 | - | - |
| | | Bitumen content | 1 | 1 | - | - |

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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| | | | | | | |
|---|---|---|---|---|---|---|
| 11 | BC | 158.14 Cum | - | - | - | - |
| | | Quality of Binder | 1 | 1 | - | - |
| | | AIV | 1 | 1 | - | - |
| | | Shape Test | 1 | 1 | - | - |
| | | Gradation | 1 | 1 | - | - |
| | | Specific Gravity | 1 | 1 | - | - |
| | | Stability of Mix | 2 | 2 | - | - |
| | | Bitumen content | 2 | 2 | - | - |

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 18.02.2022

## TEST REPORT

| | | |
|---|---|---|
| **CLIENT** | : | **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore. |
| **AGENCY** | : | **Sri. K Venkataraju,** Contractor, Bangalore. |
| **NAME OF THE WORK** | : | Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore. |
| **SAMPLE ID** | : | Cement (Zuari OPC 53 Grade) |
| **DATE OF MANUFACTURE** | | January - 2022 |
| **DATE OF TESTING** | | 16.02.2022 to 18.02.2022 |
| **SAMPLES SUPPLIED BY** | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 269-2015 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 140 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 330 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 29.00 % | - |

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date : 17.02.2022

## TEST REPORT ON FINE AGGREGATES (SAND)

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of Work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

Date of Testing : 17.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 89 | 8.90 | 8.90 | 91.1 | 90-100 |
| 2.36 | 126 | 12.60 | 21.50 | 78.5 | 75-100 |
| 1.18 | 182 | 18.20 | 39.70 | 60.3 | 55-90 |
| 600 Micron | 165 | 16.50 | 56.20 | 43.8 | 35-59 |
| 300 Micron | 256 | 25.60 | 81.80 | 18.2 | 8-30 |
| 150 Micron | 138 | 13.80 | 95.60 | 4.4 | 0-10 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date : 17.02.2022

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of Work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

Date of Testing : 17.02.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 189 | 3.8 | 3.8 | 96.2 | 95-100 |
| 10 | 2436 | 48.7 | 52.5 | 47.5 | 25-55 |
| 4.75 | 1958 | 39.2 | 91.7 | 8.3 | 0-10 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 22.02.2022

## PRECAST SLAB 100mm Thick(CORE) TEST REPORT

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Contractor** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of Work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**No.of Sample Tested** : 03

**Date of Testing** : 22.02.2022

**Techinical Reference** : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

**Grade of Concrete** : $M_{25}$

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 81.00 | 0.375 | 2357.85 | 1.62 | 0.959 | 32.30 | 16.45 | 17.77 | 17.04 | 21.30 |
| 2 | 50.00 | 83.00 | 0.389 | 2386.94 | 1.66 | 0.963 | 33.60 | 17.11 | 18.48 | 17.80 | 22.25 |
| 3 | 50.00 | 85.00 | 0.399 | 2390.69 | 1.70 | 0.968 | 33.90 | 17.27 | 18.65 | 18.04 | 22.55 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 21.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 21.02.2022 | 21.03.2022 | 8.165 | 505.2 | 22.45 |
| 2 | 21.02.2022 | 21.03.2022 | 8.145 | 513.6 | 22.83 |
| 3 | 21.02.2022 | 21.03.2022 | 8.152 | 484.9 | 21.55 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 01.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.02.2022 | 01.03.2022 | 8.168 | 336.3 | 14.95 |
| 2 | 22.02.2022 | 01.03.2022 | 8.154 | 345.2 | 15.34 |
| 3 | 22.02.2022 | 01.03.2022 | 8.146 | 352.8 | 15.68 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 01.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.02.2022 | 01.03.2022 | 8.188 | 345.2 | 15.34 |
| 2 | 22.02.2022 | 01.03.2022 | 8.165 | 339.3 | 15.08 |
| 3 | 22.02.2022 | 01.03.2022 | 8.146 | 326.2 | 14.50 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 22.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

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**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.02.2022 | 22.03.2022 | 8.184 | 505.2 | 22.45 |
| 2 | 22.02.2022 | 22.03.2022 | 8.165 | 513.6 | 22.83 |
| 3 | 22.02.2022 | 22.03.2022 | 8.146 | 484.2 | 21.52 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 01.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.02.2022 | 01.03.2022 | 8.198 | 329.3 | 14.64 |
| 2 | 22.02.2022 | 01.03.2022 | 8.165 | 356.3 | 15.84 |
| 3 | 22.02.2022 | 01.03.2022 | 8.146 | 332.6 | 14.78 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 01.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.02.2022 | 01.03.2022 | 8.188 | 326.3 | 14.50 |
| 2 | 22.02.2022 | 01.03.2022 | 8.169 | 335.2 | 14.90 |
| 3 | 22.02.2022 | 01.03.2022 | 8.175 | 346.5 | 15.40 |

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
R maiah layout, Nagasandra, Bangalore - 560 073.
PH No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 02.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 23.2.2022 | 02.03.2022 | 8.135 | 336.3 | 14.95 |
| 2 | 23.2.2022 | 02.03.2022 | 8.158 | 320.5 | 14.24 |
| 3 | 23.2.2022 | 02.03.2022 | 8.149 | 346.5 | 15.40 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 23.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 23.2.2022 | 23.03.2022 | 8.184 | 508.2 | 22.59 |
| 2 | 23.2.2022 | 23.03.2022 | 8.165 | 516.3 | 22.95 |
| 3 | 23.2.2022 | 23.03.2022 | 8.159 | 484.9 | 21.55 |

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**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**

Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 23.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 23.2.2022 | 23.03.2022 | 8.170 | 505.2 | 22.45 |
| 2 | 23.2.2022 | 23.03.2022 | 8.156 | 516.3 | 22.95 |
| 3 | 23.2.2022 | 23.03.2022 | 8.138 | 484.9 | 21.55 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 02.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 23.2.2022 | 02.03.2022 | 8.169 | 345.2 | 15.34 |
| 2 | 23.2.2022 | 02.03.2022 | 8.188 | 332.3 | 14.77 |
| 3 | 23.2.2022 | 02.03.2022 | 8.152 | 356.3 | 15.84 |

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 23.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 23.2.2022 | 23.03.2022 | 8.184 | 505.2 | 22.45 |
| 2 | 23.2.2022 | 23.03.2022 | 8.165 | 498.6 | 22.16 |
| 3 | 23.2.2022 | 23.03.2022 | 8.146 | 484.6 | 21.54 |

Note:

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 24.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 24.02.2022 | 24.03.2022 | 8.184 | 505.2 | 22.45 |
| 2 | 24.02.2022 | 24.03.2022 | 8.169 | 516.3 | 22.95 |
| 3 | 24.02.2022 | 24.03.2022 | 8.152 | 484.9 | 21.55 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


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Ramaiah layout, Nagasandra, Bangalore - 560 073.
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# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

**An ISO 9001-2015 Certified Company**
**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**

Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 24.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 24.02.2022 | 24.03.2022 | 8.189 | 505.2 | 22.45 |
| 2 | 24.02.2022 | 24.03.2022 | 8.165 | 516.2 | 22.94 |
| 3 | 24.02.2022 | 24.03.2022 | 8.152 | 484.9 | 21.55 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 24.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 24.02.2022 | 24.03.2022 | 8.169 | 505.4 | 22.46 |
| 2 | 24.02.2022 | 24.03.2022 | 8.184 | 513.3 | 22.81 |
| 3 | 24.02.2022 | 24.03.2022 | 8.152 | 488.9 | 21.73 |

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


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# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

**An ISO 9001-2015 Certified Company**
**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**

Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 24.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 24.02.2022 | 24.03.2022 | 8.168 | 502.2 | 22.32 |
| 2 | 24.02.2022 | 24.03.2022 | 8.184 | 516.2 | 22.94 |
| 3 | 24.02.2022 | 24.03.2022 | 8.152 | 484.9 | 21.55 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

# CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 03.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 24.02.2022 | 03.03.2022 | 8.180 | 336.3 | 14.95 |
| 2 | 24.02.2022 | 03.03.2022 | 8.165 | 348.5 | 15.49 |
| 3 | 24.02.2022 | 03.03.2022 | 8.158 | 356.3 | 15.84 |

Note:
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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 04.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.02.2022 | 04.03.2022 | 8.169 | 336.3 | 14.95 |
| 2 | 25.02.2022 | 04.03.2022 | 8.184 | 345.5 | 15.36 |
| 3 | 25.02.2022 | 04.03.2022 | 8.152 | 352.9 | 15.68 |

Note:
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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 04.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.02.2022 | 04.03.2022 | 8.198 | 356.3 | 15.84 |
| 2 | 25.02.2022 | 04.03.2022 | 8.165 | 332.6 | 14.78 |
| 3 | 25.02.2022 | 04.03.2022 | 8.172 | 346.5 | 15.40 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 25.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. K Venkataraju,** Contractor, Bangalore. |
| **Name of the work** | : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore. |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.02.2022 | 25.03.2022 | 8.184 | 475.8 | 21.15 |
| 2 | 25.02.2022 | 25.03.2022 | 8.169 | 489.6 | 21.76 |
| 3 | 25.02.2022 | 25.03.2022 | 8.154 | 506.3 | 22.50 |

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಪಾ.ಪ. ಬೆಂಗಳೂರು-106

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


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PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

**An ISO 9001-2015 Certified Company**
**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**

Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 04.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.02.2022 | 04.03.2022 | 8.184 | 356.3 | 15.84 |
| 2 | 25.02.2022 | 04.03.2022 | 8.169 | 336.2 | 14.94 |
| 3 | 25.02.2022 | 04.03.2022 | 8.152 | 346.5 | 15.40 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 05.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 26.02.2022 | 05.03.2022 | 8.189 | 339.3 | 15.08 |
| 2 | 26.02.2022 | 05.03.2022 | 8.168 | 345.2 | 15.34 |
| 3 | 26.02.2022 | 05.03.2022 | 8.172 | 356.8 | 15.86 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 19.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. K Venkataraju,** Contractor, Bangalore. |
| Name of the work | : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore. |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 19.02.2022 | 19.03.2022 | 8.184 | 505.2 | 22.45 |
| 2 | 19.02.2022 | 19.03.2022 | 8.169 | 488.9 | 21.73 |
| 3 | 19.02.2022 | 19.03.2022 | 8.155 | 496.3 | 22.06 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 19.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. K Venkataraju,** Contractor, Bangalore. |
| Name of the work | : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore. |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 19.02.2022 | 19.03.2022 | 8.180 | 515.2 | 22.90 |
| 2 | 19.02.2022 | 19.03.2022 | 8.174 | 526.3 | 23.39 |
| 3 | 19.02.2022 | 19.03.2022 | 8.165 | 505.2 | 22.45 |

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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 02.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 23.02.2022 | 02.03.2022 | 8.135 | 266.2 | 11.83 |
| 2 | 23.02.2022 | 02.03.2022 | 8.160 | 284.5 | 12.64 |
| 3 | 23.02.2022 | 02.03.2022 | 8.152 | 276.9 | 12.31 |

Note:

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Job No.: CACE/BBMP/KV/W.No.03/2021-22

Date: 02.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. K Venkataraju,** Contractor, Bangalore. |
| **Name of the work** | : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore. |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{15}$ |
| **Compressive Strength as on** | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 23.02.2022 | 02.03.2022 | 8.174 | 284.5 | 12.64 |
| 2 | 23.02.2022 | 02.03.2022 | 8.158 | 276.9 | 12.31 |
| 3 | 23.02.2022 | 02.03.2022 | 8.182 | 280.3 | 12.46 |

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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# CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date: 05.03.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of the work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{15}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 26.02.2022 | 05.03.2022 | 8.165 | 280.9 | 12.48 |
| 2 | 26.02.2022 | 05.03.2022 | 8.159 | 265.3 | 11.79 |
| 3 | 26.02.2022 | 05.03.2022 | 8.143 | 279.5 | 12.42 |

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Table 2

| Sl. No. | Particulars | Test Results | Requirements as per MORTH 5th edition table 400.2 |
|---|---|---|---|
| 1 | Liquid Limit, % | 20.00 | 25.0% Maximum. |
| 2 | Plasticity Index, % | Non Plastic | 6.0% Maximum. |

**Remarks:** Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date : 12.03.2022

## ATTERBERG LIMITS TEST FOR WMM

ient : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.
ncy : **Sri. K Venkataraju,** Contractor, Bangalore.
me of Work : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.
Code: : IS 2720(Part 5):1985
te of Testing : 10.03.2022 to 12.03.2022
aterial Type : Wet Mix Macadam

| Sl. No. | Particulars | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|---|---|---|---|
| 1 | Liquid Limit | 22.00 | - |
| 2 | Plasticity Index, % | Non Plastic | 6.0% Maximum. |

e:
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he results indicated above are based on the tests carried out on the samples collected at the site.
ny Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/KV/W.No.03/2021-22 Date : 12.03.2022

## GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.
Agency : **Sri. K Venkataraju,** Contractor, Bangalore.
Name of Work : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 12.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

| Is Sieve Size in mm | Weight Retained (gm) | Cumulative Weight Retained (gm) | Cumulative % of Retained | Cumulative % of Passing | Requirement as per MORTH 5th edition table no 400.13 |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0 | 100 | 100 |
| 45 | 189 | 189 | 1.9 | 98.1 | 95-100 |
| 22.4 | 2420 | 2609 | 26.1 | 73.9 | 60-80 |
| 11.2 | 2189 | 4798 | 48.0 | 52.0 | 40-60 |
| 4.75 | 1845 | 6643 | 66.4 | 33.6 | 25-40 |
| 2.36 | 1156 | 7799 | 78.0 | 22.0 | 15-30 |
| 0.600 | 535 | 8334 | 83.3 | 16.7 | 8-22 |
| 0.075 | 1285 | 9619 | 96.2 | 3.8 | 0-5 |

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JobNo: CACE/BBMP/KV/W.No.03/2021-22 Date : 14.03.2022

## TEST RESULTS OF AGGREGATE SHAPE TEST
## (Flakiness & Elongation)

**Client** : **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore.

**Agency** : **Sri. K Venkataraju,** Contractor, Bangalore.

**Name of work** : Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore.

**BIS Code** : IS 2386 Part (1):1963

**Date of Test** : 14.03.2022

**Type of Mix** : Dense Graded Bituminous Macadam

| Sl.No. | Flakiness Index Value(%) | Elongation Index Value(%) | Total(Combined Flakiness and Elongation )(%) | Requirements |
|---|---|---|---|---|
| 1 | 12.20 | 13.60 | 25.80 | Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification. |
| 2 | 12.60 | 13.90 | 26.50 | |

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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(Building Geo-Tech & Highway Materials Testing Laboratory)

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**NABL Accredited As Per ISO/IEC 17025:2017 Laboratory**

No.: CACE/BBMP/KV/W.No.03/2021-22 Date : 15.03.2022

## Aggregate Gradation Test

IS : 2386 Part I

| | |
|---|---|
| | **Assistant Executive Engineer,** Yelahanka New town Sub Division, BBMP, Bangalore. |
| cy | **Sri. K Venkataraju,** Contractor, Bangalore |
| e of the Work | Restoration and Improvements of roads at Hesaraghatta main road, G Ramaiah layout, Sai Archade layout, Vijaya Bank Layout, AdityanagaraPhase-02 and surrounding areas in Ward No.03 of Yelahanka New town Sub Division (Package No-09), BBMP, Bangalore. |
| Code | IS 2386(Part 1):1963 |
| ple I / D | Hot Mix Plant, Bangalore |
| e of Mix | Bituminous Concrete |
| e of Testing | 15.03.2022 |

l Weight of Sample: **5000** gm

| IEVE ZE, mm | Weight Retained, gm | % Retained | Cummulative % Retained | % Passing | Requirement as per MORTH table 500.17 | Remarks |
|---|---|---|---|---|---|---|
| 19 | 0 | 0 | 0 | 100 | 100 | Gradation satisfies Bituminous concrete Grade-II specification as per MORTH |
| 13.2 | 415 | 8.30 | 8.30 | 91.70 | 90 - 100 | |
| 9.5 | 482 | 9.64 | 17.94 | 82.06 | 70 - 88 | |
| 4.75 | 635 | 12.70 | 30.64 | 69.36 | 53 - 71 | |
| 2.36 | 682 | 13.64 | 44.28 | 55.72 | 42 - 58 | |
| 1.18 | 520 | 10.40 | 54.68 | 45.32 | 34 - 48 | |
| 0.600 | 546 | 10.92 | 65.60 | 34.40 | 26 - 38 | |
| 0.300 | 489 | 9.78 | 75.38 | 24.62 | 18 - 28 | |
| 0.150 | 366 | 7.32 | 82.70 | 17.30 | 12 - 20 | |
| 0.075 | 482 | 9.64 | 92.34 | 7.66 | 4 - 10 | |

otal Weight of Sample: **5000** gm

| SIEVE SIZE, mm | Weight Retained, gm | % Retained | Cummulative % Retained | % Passing | Requirement as per MORTH table 500.17 | Remarks |
|---|---|---|---|---|---|---|
| 19 | 0 | 0 | 0 | 100 | 100 | Gradation satisfies Bituminous concrete Grade-II specification as per MORTH |
| 13.2 | 420 | 8.40 | 8.40 | 91.60 | 90 - 100 | |
| 9.5 | 549 | 10.98 | 19.38 | 80.62 | 70 - 88 | |
| 4.75 | 682 | 13.64 | 33.02 | 66.98 | 53 - 71 | |
| 2.36 | 533 | 10.66 | 43.68 | 56.32 | 42 - 58 | |
| 1.18 | 559 | 11.18 | 54.86 | 45.14 | 34 - 48 | |
| 0.600 | 546 | 10.92 | 65.78 | 34.22 | 26 - 38 | |
| 0.300 | 682 | 13.64 | 79.42 | 20.58 | 18 - 28 | |
| 0.150 | 198 | 3.96 | 83.38 | 16.62 | 12 - 20 | |
| 0.075 | 482 | 9.64 | 93.02 | 6.98 | 4 - 10 | |

ಶಾಲೆಯ ಕಾಂಪೌಂಡಿನ ಅವಶ್ಯಕತೆಗಾಗಿ.
ಮುಖ್ಯಶಿಕ್ಷಕರು ಕಾರ್ಯನಿರ್ವಹಣಾಧಿಕಾರಿಗಳು
ಪೂರ್ಣಪ್ರಜ್ಞ ಪ್ರೌಢಶಾಲೆ ಬಿ.ಎಂ.ಟಿ.ಲೇಔಟ್-1ನೇ ಹಂತ

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Note:
- Satvika Nilaya, Opp. Nidis Poorna Prajna School, ...iah Layout, Nagasandra, Bangalore - 560 073.
- ...without written approval of the laboratory.
- ...s carried out on the samples collected at the site.

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